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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/434,985	11/05/99	JITARU	I 1675B.1A.1

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MMC2/0629

EXAMINER

MAI, A

ART UNIT	PAPER NUMBER
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2832

DATE MAILED:

06/29/00

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.  
**09/434,985**

Applicant(s)  
**Jitaru**

Examiner  
**Anh Mai**

Group Art Unit  
**2832**

☐ Responsive to communication(s) filed on \_\_\_\_\_.

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1-15 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-5, 7, 8, 10-12, 14, and 15 is/are rejected.

☒ Claim(s) 6, 9, and 13 is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been  
☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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DETAILED ACTION

*Claim Rejections - 35 USC § 112*

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 7-8 and 14-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. With respect to the claims, what does applicant intend by an "open loop"? Open loop of what? An open loop circuit? Is it shown in the drawing?

*Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5, 10-11 and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Godek et al. [US 5321380] in view of Haertling et al. [US 5532667].

Godek discloses:

- a printed circuit board of dielectric sheet 10;

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- a first transformer having first core 82 extending through dielectric sheet and a first set of electrically conductive windings 50;

- a second transformer having a second core 42 extending through dielectric sheet and a second set of electrically conductive windings 32;

- conductive trace 22 communicating with first set of conductive winding [figure 4];

- first and second sets of conductive windings are electrically encapsulated [figure 5].

Godek discloses the instant claimed invention except for the circuit board having multi layer of electric sheets. Haertling discloses a multi layer transformer wherein the conductive element 256b are in between two adjoining layers 254, 256 of dielectric sheets [figure 12]. It would have been obvious to a person of ordinary skill in the art to have multi layer of dielectric sheets as taught by Haertling to Godek. The motivation would have been to reduce the creepage distance inside the transformer. Therefore, it would have been obvious to combine Haertling with Godek.

With respect to claims 2-3, Haertling discloses a magnetic shield for outer conductive pattern to protect the element from external magnetic fields [col 5, lines 54-59 and figures 5-6]. Therefore, it would have been obvious to combine Haertling with Godek.

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*Allowable Subject Matter*

3. Claims 6 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The prior art of record does not teach *a first set of conductive winding including "quiet winding" and second set of conductive winding being positioned proximate to the "quiet winding"*.

5. Claims 7-9 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2<sup>nd</sup> paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

6. The prior art of record does not teach *a secondary set of winding positioned to have electrical flow induced therein by the first core and further including an open loop positioned to inject a current through parasitic capacitance in the secondary windings*.


*Conclusion*

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Levin [US 6073339], Rodriguez et al. [US 4622627].

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh Mai whose telephone number is (703) 308-2900.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2800 receptionist whose telephone number is (703) 308-0956. The fax phone numbers for this Technology Center are (703) 305-3431/3432/1341.



Anh Mai

Patent Examiner, AU 2832

June 22, 2000